action potential
→ is defined demonstrates the exact relation-ship blw the strength & the duration of stimulus is ckd SD curve.

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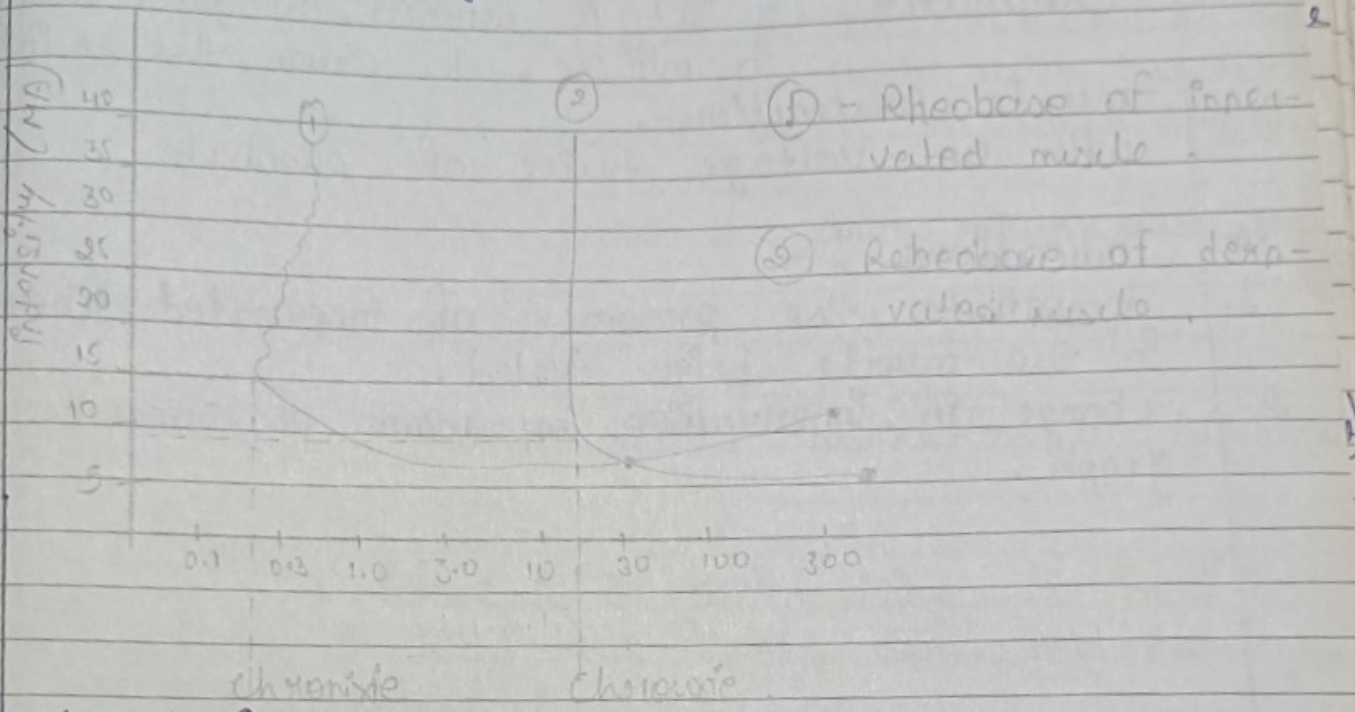
S.D. CURVES

It is the test to determine neuromuscular excit-bility.

→ It is used mainly for motor nerve assesment.



Methods :-

1. The area to be treated should be formly supp-orted. ~~we~~
2. worm & wet the skin ~~show~~ so as to lower the skin resistance when current is passed.

el-

1. Indifferent el- placed over the origin of muscle.
2. active el- is placed over the muscle bulk.
3. current is applied using the lowest stimulus 1st - 100 or 300 milisec.

The magnitude of the current is ↑se as require the SD curve blw duration & voltage is plotted from the result of the test.

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difference blw EMG / SD

duration — chronaxie.

voltage indication

* **Rheobase** :- is a term used for a minimum current or voltage which can produce minimum muscle contraction.
→ when a large duration impulse is applied

* Chronaxie :- It is denoted as the pulse duration in milisec. to cause the minimal muscle contraction.
→ with an voltage twice of Rheobase.

* Indications :-
1. demostrate the prasence of innervated fibers in the muscle beign tested.
2. change in innervation by means of succesive graph.

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